

HB-2X2MX-8-W

~50° wide beam. New revision.

SPECIFICATION:

Dimensions	90.0 x 90.0 mm
Height	16.9 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

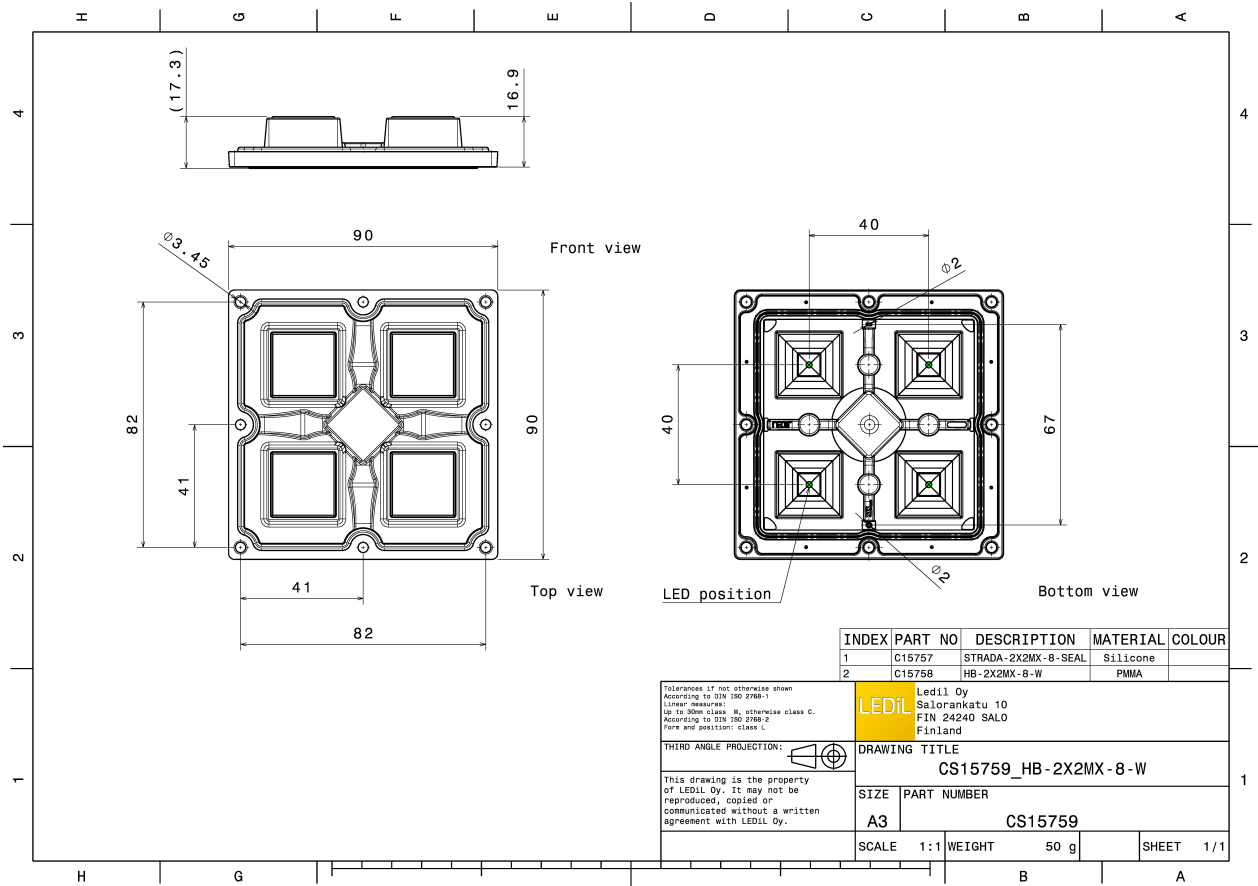
MATERIALS:

Component	Type	Material	Colour	Finish
HB-2X2MX-8-W	Multi-lens	PMMA	clear	
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear	



ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15759_HB-2X2MX-8-W	Multi-lens	156	52	52	8.8
» Box size: 476 x 273 x 292 mm					

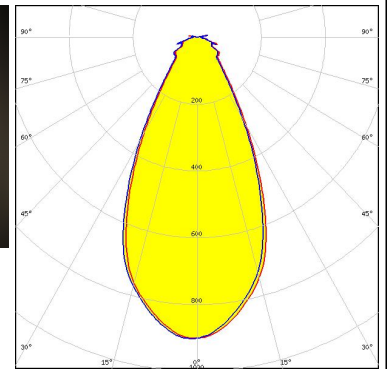
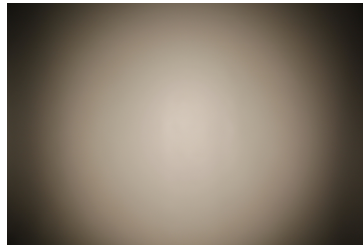


See also our general installation guide: www.ledil.com/installation_guide

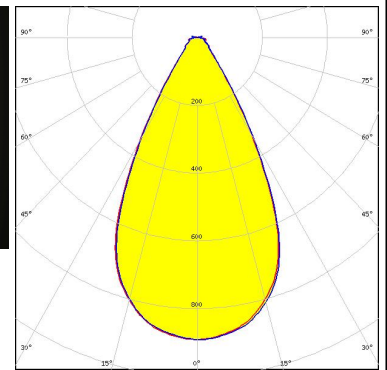
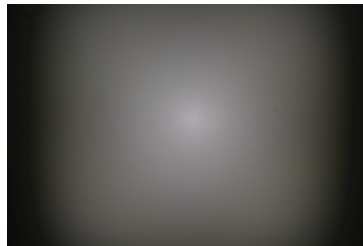
OPTICAL RESULTS (MEASURED):



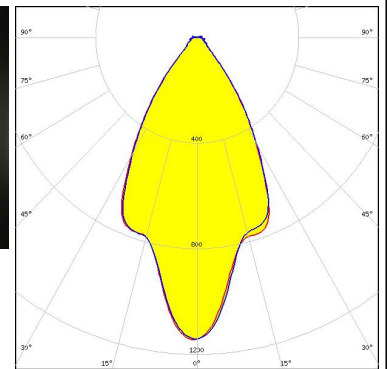
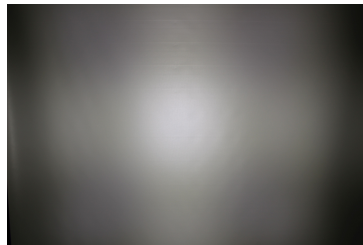
LED CXA/B 15xx
 FWHM / FWTM 51.0° / 90.0°
 Efficiency 90 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 441 Typ 2x2MX HV



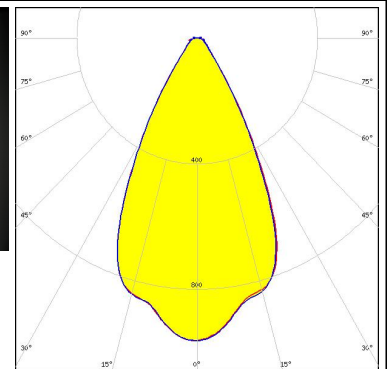
LED XHP50.2
 FWHM / FWTM 55.0° / 82.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



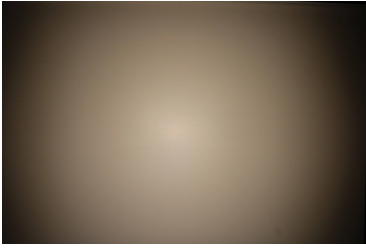
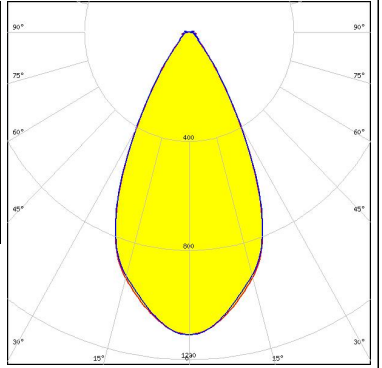

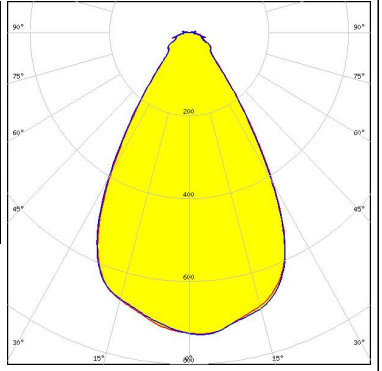
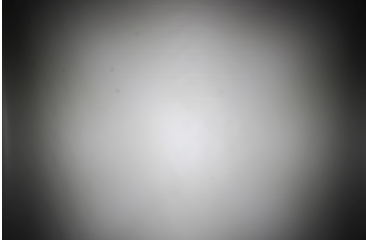
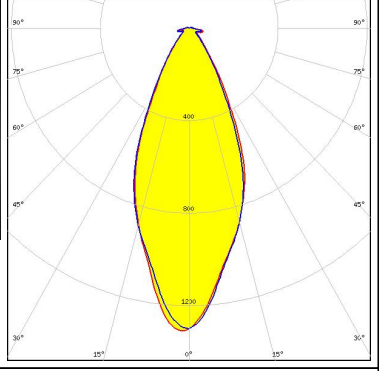
LED XT-E HE
 FWHM / FWTM 56.0° / 87.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



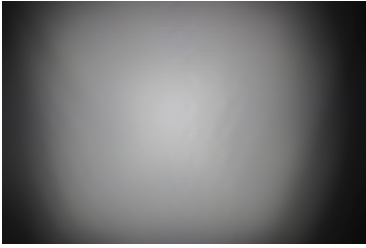
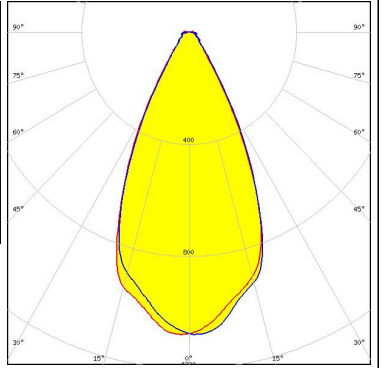

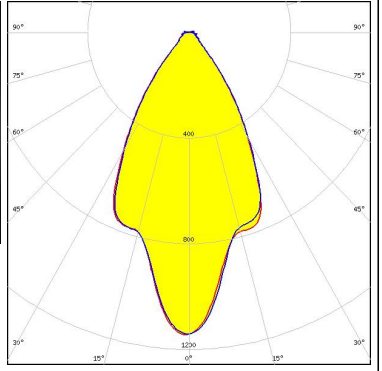
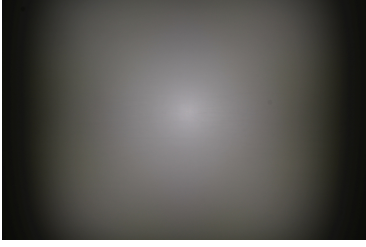
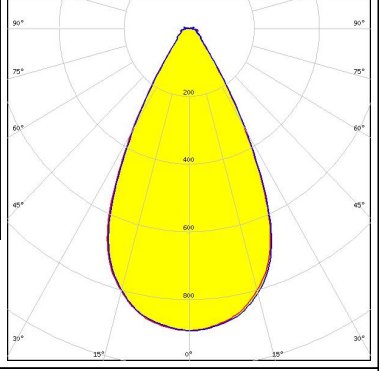

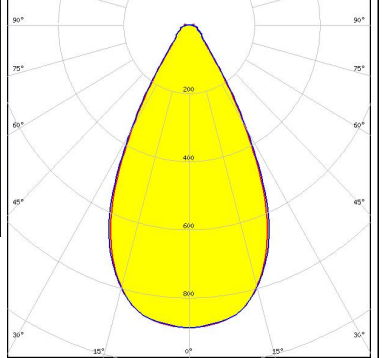
LED LUXEON M/MX
 FWHM / FWTM 54.0° / 82.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON XR-7070 (L224-xxxx004MLU010)</p> <p>FWHM / FWTM 53.0° / 82.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 1.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NV9W149AM</p> <p>FWHM / FWTM 63.0° / 97.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SAMSUNG</p> <p>LED HiLOM SC16 (LH181B)</p> <p>FWHM / FWTM 44.0° / 78.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SCIOLUX</p> <p>LED PAL-LK-4950-740-48</p> <p>FWHM / FWTM 55.0 + 55.5° / 82.0 + 82.5°</p> <p>Efficiency 99 %</p> <p>Peak intensity 0.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

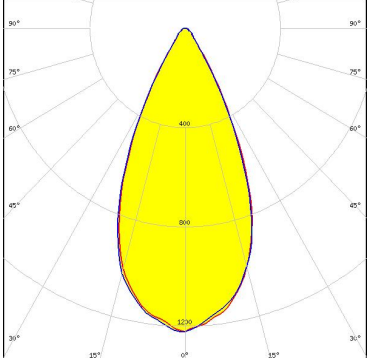
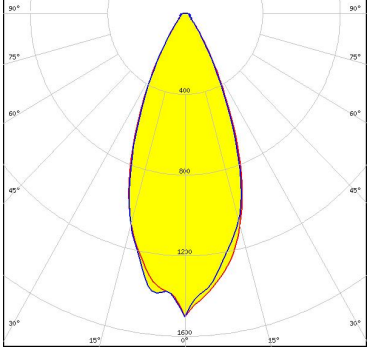
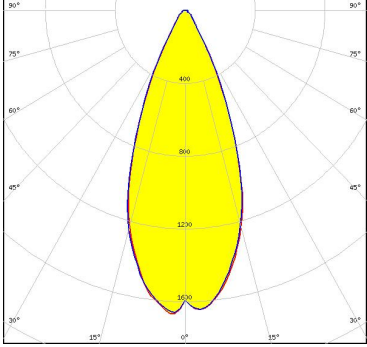

OPTICAL RESULTS (MEASURED):

<p>SCIOLUX</p> <p>LED XLE-S22C4XD16 (XD16)</p> <p>FWHM / FWTM 50.0° / 78.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.1 cd/m</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SCIOLUX</p> <p>LED XLE-S22C4XTEHE (XT-E HE)</p> <p>FWHM / FWTM 56.0° / 87.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SCIOLUX</p> <p>LED XLE-S22XHP50B (XHP50.2)</p> <p>FWHM / FWTM 55.0° / 82.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED WICOP 5050</p> <p>FWHM / FWTM 56.0° / 83.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 0.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

OPTICAL RESULTS (MEASURED):



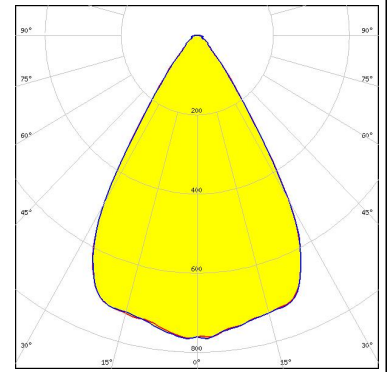
OPTICAL RESULTS (SIMULATED):

<p>bridgelux</p> <p>LED: Bridgelux SMD 5050 FWHM / FWTM: 48.0° / 73.0° Efficiency: 94 % Peak intensity: 1.3 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CITIZEN</p> <p>LED: CLU700/701/702/703 FWHM / FWTM: 43.0° / 73.0° Efficiency: 88 % Peak intensity: 1.5 cd/lm LEDs/each optic: 1 Light colour: White Required components: Bender Wirth: 434 Typ 2x2MX HV</p>	
<p>CREE LEDs</p> <p>LED: CMA1303 FWHM / FWTM: 42.0° / 66.0° Efficiency: 93 % Peak intensity: 1.7 cd/lm LEDs/each optic: 1 Light colour: White Required components: Bender Wirth: 448 Typ 2x2MX HV</p>	
<p>CREE LEDs</p> <p>LED: XHP70.2 FWHM / FWTM: 62.0° / 90.0° Efficiency: 85 % Peak intensity: 0.8 cd/lm LEDs/each optic: 1 Light colour: White Required components: Protective plate, glass</p>	

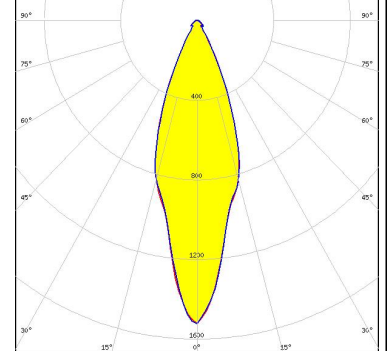
OPTICAL RESULTS (SIMULATED):



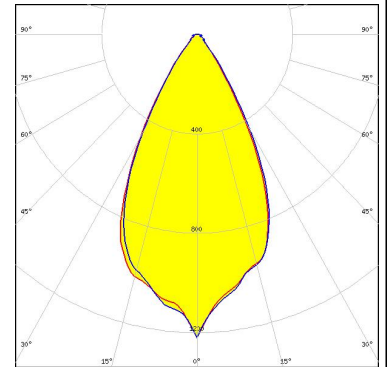
LED XHP70.3 HD
 FWHM / FWTM 64.0° / 86.0°
 Efficiency 93 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



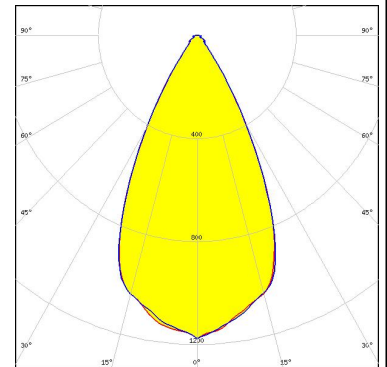
LED XP-E2
 FWHM / FWTM 34.0° / 58.0°
 Efficiency 94 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON 7070
 FWHM / FWTM 54.0° / 80.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED MP 7070
 FWHM / FWTM 52.0° / 76.0°
 Efficiency 94 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



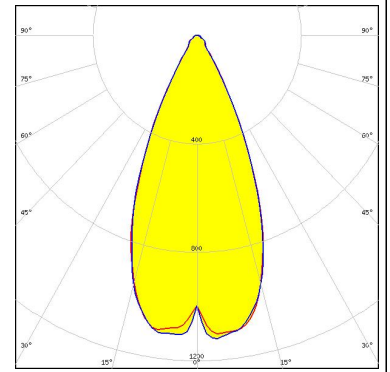
OPTICAL RESULTS (SIMULATED):

<p>LUMINUS</p> <p>LED SFT-40-WCS FWHM / FWTM 40.0° / 58.0° Efficiency 95 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMINUS</p> <p>LED SFT-40-WCS FWHM / FWTM 44.0° / 62.0° Efficiency 95 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NF2x757G FWHM / FWTM 54.0° / 80.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 4 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NFMW48xA FWHM / FWTM 49.0° / 72.0° Efficiency 94 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

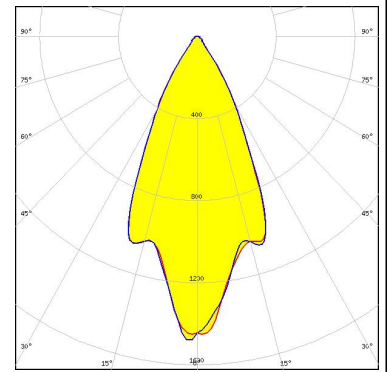
OPTICAL RESULTS (SIMULATED):



LED NV4WB35AM
FWHM / FWTM 46.0° / 68.0°
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSCONIQ C 2424
FWHM / FWTM 48.0° / 74.0°
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 4
Light colour White
Required components:



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

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